

Opening Date: August 28, 2019
Closing Date: September 5, 2019
Work Location: Austin, Texas
Posting Number: 19-97
Monthly Salary: \$5,784.59-\$6,666.66*
Group/Class: B26/0654
Travel %: 25%
Division/Department: WSC/Administration
Number of Positions: 1

*Salary commensurate with experience and qualifications.

JOB VACANCY NOTICE

Water Data Scientist & Coordinator

(Data Analyst V)

*Texas Water Development Board, Stephen F. Austin Building
1700 North Congress Ave., Room 670, Austin, Texas 78701
Please contact Human Resources for accommodation requests.
Phone: (512) 475-2142
Apply at: Work in Texas www.workintexas.com OR
HR@twdb.texas.gov*

(INTERNAL POSTING)

Job Description Summary

Performs highly complex (journey-level) scientific data analysis and integration and coordinates projects and outreach. Work involves internal and external outreach to stakeholders to identify and coordinate the use of and access to flood-related data for integration into a statewide data hub and flood dashboard. Works as a member of a coordination team to develop processes, procedures, and data schemas for FAIR (findable, accessible, interoperable, and reusable) data use and integration into a statewide flood information environment. Identifies and establishes relationships with key personnel (federal, state, and local governments and private sector) to understand data needs and requirements for statewide flood planning and response. Develops reports that document data needs and requirements. Works with essential Texas Water Development Board (TWDB) flood and data personnel to develop data relationships and schemas that outline how data can or should be integrated into a statewide data hub. Develops guidelines for data use and access for all contributors to and users of a statewide data system according to FAIR data principles. Works with cross-divisional, cross-office teams in data gathering and analysis projects. Maintains data integrity and security. May train others. Works under limited supervision, with moderate latitude for the use of initiative and independent judgment. Reports to the Assistant Deputy Executive Administrator of the Water Science & Conservation Office.

Essential Job Functions

- Develops and implements outreach plans to identify flood data needs to support planning and response activities around the state.
- Develops workshops and coordinates meetings with stakeholders to clearly articulate how data are to be unified and integrated into a statewide data hub and flood dashboard.
- Identifies and liaises with flood stakeholders, developing relationships that offer insight into flood data needs.
- Identifies specific flood data sources to support the development of a statewide data hub and flood dashboard.
- Develops guidelines following FAIR Data Principles that set expectations for data sharing and use for stakeholders.
- Works closely with data hub and flood dashboard coordination team and developers to create data schemas and integration strategies.
- Develops use cases demonstrating how a data hub and flood dashboard support statewide flood initiatives.
- Validates data integration processes and identifies security and integrity issues.

Female and minority applicants are encouraged to apply.

Males born on or after January 1, 1960, will be required to present proof of Selective Service registration on the first day of employment or proof of exemption from Selective Service registration requirement. All offers of employment are contingent upon the candidate having legal authorization to work in the United States. Failure to present such authorization within the time specified by the U.S. Department of Labor will result in the offer being rescinded. Candidates must be eligible to work in the United States without requiring sponsorship. Only applicants interviewed will be notified of their selection or non-selection. Resumes will not be accepted in place of a completed State of Texas application unless indicated.

HR-002 (Non-Supervisory)
Revised 07/01/2019



The Texas Water Development Board does not discriminate on basis of race, color, national origin, sex, religion, age, or disability in employment or provision of services, programs, or activities. Please visit TWDB Career Page: <http://www.twdb.texas.gov/jobs/> for more information.

TWDB participates in E-Verify! Information from each new employee's Form I-9 will be provided to the Social Security Administration (SSA) and, if necessary, the Department of Homeland Security (DHS) to confirm work authorization.

Job Vacancy Notice (cont.)

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- Compiles and evaluates water resources data and information, including flood data, and maintains a catalog that is updated regularly.
- Develops and provides presentations and/or training sessions as needed.
- Maintains confidential and sensitive information.
- Ensures individual and team files (electronic and hard versions) are appropriately maintained and timely disposed of in accordance with the agency's records retention procedures and schedule.
- Maintains required certifications and licenses and meets the continuing education needs and requirements of the position to include, attending mandatory training courses.
- May be required to operate a state or personal vehicle for business purposes.
- Performs other duties as assigned.

Minimum Qualifications

- Graduation from an accredited four-year college or university with major coursework in Computer Science, Information Science, Geographical Information Systems (GIS), Natural/Physical/Environmental Science, Engineering, Planning, or a related field.
- Five years of work experience relevant to data analysis and management in a professional work environment.
- Relevant education and experience can be substituted on a year-for-year basis.

Preferred Qualifications

- Graduate degree, or working towards completion of a graduate degree, from an accredited college or university with major coursework in Computer Science, Information Science, GIS, Natural/Physical/Environmental Science, Engineering, Planning, or related field.
- Three years of experience with the development and analysis of geospatial, engineering, and/or scientific data, including time-series data.
- Previous experience in GIS data development, data management, or water resources.
- Previous experience using GIS.
- Previous experience using scripting languages, working with databases, and/or building web applications or web services.
- Previous experience with the graphical display of engineering and/or scientific data.

Knowledge, Skills, and Abilities (KSAs)

- Knowledge of local, state, and federal laws and regulations relevant to the Office of Water Science & Conservation; and of the principles and practices of public administration.
- Knowledge of scientific, statistical, and modeling principles and techniques.
- Knowledge of data schemas, data mapping services, and Extract Translate and Load (ETL) processes.
- Knowledge of relational database concepts, common data standards, and data management practices.
- Knowledge of GIS and/or hydrologic modeling and related software and tools of the profession.
- Skills in scientific data collection, management, interpretation, and visualization.
- Skills in programming/scripting languages, such as Python, Fortran, Matlab, or equivalent.
- Skills in spatial data analysis techniques (*e.g.*, ArcGIS, *etc.*) and common statistical analysis techniques.
- Skills in the development of scientific applications, web applications, and/or web services.
- Skills in using Microsoft Office programs such as Word, Excel, and Access.
- Skills in use of internet, email, word processing, spreadsheet, presentation, and database software.
- Skills in identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.
- Skills in interpersonal skills and the ability to interact effectively with a wide variety of customers and stakeholders.

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- Skills in giving presentations to the general public.
- Ability to communicate both technical and non-technical issues clearly and concisely, both verbally and in writing.
- Ability to utilize analytical and problem-solving skills to address complex problems and devise solutions.
- Ability to gather, assemble, correlate, and analyze data.
- Ability to meet public/government officials to initiate collaborative efforts and to request data for integration into work products.
- Ability to develop, evaluate, and interpret policies and procedures.
- Ability to coordinate with other staff to ensure continuity and consistency.
- Ability to manage multiple tasks and schedule work to maintain regular progress on assignments and meet deadlines.
- Ability to adhere to work schedules, follow procedures with respect to leave and submit accurate timesheets by prescribed deadlines.
- Ability to make mature, objective decisions and identify areas of potential problems.
- Ability to perform effectively and willingly when changes occur in scope and nature of the work and work environment.
- Ability to perform routine and non-routine work assignments accurately and on-time with little or no supervision.
- Ability to perform assigned duties and improve work habits and/or output.
- Ability to complete assigned work, on time, neatly and with infrequent errors.
- Ability to interpret policies, procedures, and regulations.
- Ability to provide prompt, courteous and accurate assistance and clear and concise communication to internal and external stakeholders both verbally and in writing.
- Ability to work and cooperate with others in a team environment.
- Ability to manage multiple tasks.
- Ability to stand/sit/move with no physical limitations or aids to perform activities such as retrieve/replace files in a large file system for boxes up to 30 lbs.
- Ability and willingness to travel 25% of the time, primarily within the State of Texas.
- Ability to operate a vehicle (state or personal) for state business and maintain a driver's license and driving record that complies with state and agency requirements.
- Ability to work days that may exceed 8 hours, including early mornings, nights, and weekends.
- Ability to train others.

Remarks

- Copy of required academic transcripts and/or licensures and driving record must be submitted at the time of hire. Failure to provide required documentation will result in no further consideration for employment.
- Important Notice: Otherwise qualified candidates who are ultimately considered for potential employment with the Texas Water Development Board may be the subject of a request for any criminal history record information maintained by the Texas Department of Public Safety (DPS). Evidence of a criminal conviction or other relevant information obtained from the DPS shall not automatically disqualify an individual from employment with the Texas Water Development Board.